

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	145	diamond with tool with concave	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S2	57340	song.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S3	190956	park.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S4	432338	kim.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S5	454815	lee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S6	3562	cheong.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S7	1785	jee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S8	11	(S2 S3 S4 S5 S6 S7) and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:27
S9	1	(diamond with tool with concave with shank).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:28
S10	18	diamond near4 tool same abrasive near (particle or grain) same shank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:05
S11	1436	(diamond near tool).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:15

S12	557	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:16
S13	777	451/51.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:16
S14	1034	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:16
S15	11635	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:17
S16	41	(S12 S14 S15) and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/21 14:17
S17	50	(US-20070151554-\$ or US-20050249560-\$ or US- 20020182018-\$ or US- 20060120811-\$).did. or (US-4496372-\$ or US- 4244432-\$ or US- 4351401-\$ or US- 4457765-\$ or US- 4534773-\$ or US- 4556403-\$ or US- 4778730-\$ or US- 4793828-\$ or US- 5580196-\$ or US- 7128066-\$ or US- 6959771-\$ or US- 4539778-\$ or US- 5011508-\$ or US- 5388374-\$ or US- 5501630-\$ or US- 4258505-\$ or US- 4268564-\$ or US- 4330027-\$ or US- 4350497-\$ or US- 4355489-\$ or US- 4382350-\$ or US- 4486200-\$ or US- 4536195-\$ or US- 4596640-\$ or US- 4787942-\$ or US- 4832707-\$).did. or (US- 4918874-\$ or US- 4968326-\$ or US- 4971602-\$ or US- 5008513-\$ or US-	US-PGPUB; USPAT	OR	ON	2009/01/23 08:19

		5016498-\$ or US- 5025871-\$ or US- 5178643-\$ or US- 5210944-\$ or US- 5376410-\$ or US- 5492548-\$ or US- 5773120-\$ or US- 6004362-\$ or US- 6030277-\$ or US- 6113474-\$ or US- 6180245-\$ or US- 5358026-\$ or US- 5447465-\$ or US- 4869788-\$ or US- 3872594-\$ or US- 4951423-\$).did.				
S18	62769	song.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S19	201144	park.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S20	455269	kim.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S21	476517	lee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S22	3744	cheong.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S23	1964	jee.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S24	41	(S18 S19 S20 S21 S22 S23) and (diamond same tool).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:06
S25	5	(S18 S19 S20 S21 S22 S23) and (diamond same tool).clm. and shank.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:07
S26	561	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32

S27	779	451/51.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S28	1039	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S29	11732	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S30	8	(S26 S27 S28 S29) and (diamond near tool).ab. and (concave or slot or aperture)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:32
S31	50	(US-20070151554-\$ or US-20050249560-\$ or US- 20020182018-\$ or US- 20060120811-\$).did. or (US-4496372-\$ or US- 4244432-\$ or US- 4351401-\$ or US- 4457765-\$ or US- 4534773-\$ or US- 4556403-\$ or US- 4778730-\$ or US- 4793828-\$ or US- 5580196-\$ or US- 7128066-\$ or US- 6959771-\$ or US- 4539778-\$ or US- 5011508-\$ or US- 5388374-\$ or US- 5501630-\$ or US- 4258505-\$ or US- 4268564-\$ or US- 4330027-\$ or US- 4350497-\$ or US- 4355489-\$ or US- 4382350-\$ or US- 4486200-\$ or US- 4536195-\$ or US- 4596640-\$ or US- 4787942-\$ or US- 4832707-\$).did. or (US- 4918874-\$ or US- 4968326-\$ or US- 4971602-\$ or US- 5008513-\$ or US- 5016498-\$ or US- 5025871-\$ or US- 5178643-\$ or US- 5210944-\$ or US- 5376410-\$ or US-	US-PGPUB; USPAT	OR	ON	2009/05/07 11:38

		5492548-\$ or US- 5773120-\$ or US- 6004362-\$ or US- 6030277-\$ or US- 6113474-\$ or US- 6180245-\$ or US- 5358026-\$ or US- 5447465-\$ or US- 4869788-\$ or US- 3872594-\$ or US- 4951423-\$).did.				
S32	2	S31 and (abrasive near tool).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 11:39
S33	2	("6039641").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 11:39
S34	28	("4669522"   "4780274"   "5000273"   "5518443").PN. OR ("6039641").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/07 11:39
S35	95	(hole or opening or aperture) with (swarf or coolant or cool) with (diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 13:56
S36	46	groove with (swarf or coolant or cool) with (diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 13:56
S37	5	((("4091792") or ("4624237"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 13:57
S38	16242	diamond near (tool or saw or grinding or cutting or abrading)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:26
S39	271	(diamond near (tool or saw or grinding or cutting or abrading)).ab. and (diamond or abrasive or superabrasive) same (braz\$5 or bond\$5) same layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:27

S40	3	(diamond near (tool or saw or grinding or cutting or abrading)).ab. and (diamond or abrasive or superabrasive) same (braz\$5 or bond\$5) same layer and concave near portion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:27
S41	186	protrud\$5 with (diamond or superabrasive) near3 particle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 14:53
S42	72	protrud\$5 with (diamond or superabrasive) near3 particle and tool near4 (cutting or diamond or grinding or abrading)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:04
S43	65	protrud\$5 with (diamond or superabrasive) near3 particle and (opening or slot or aperture or concave)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:06
S44	12	protrud\$5 with (diamond or superabrasive) near3 particle same (opening or slot or aperture or concave)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:17
S45	103755	"451".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:25
S46	11732	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:25
S47	1934	(S45 S46) and (opening or slot or concave or aperture) same (diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:27
S48	1593	(S45 S46) and (opening or slot or concave or aperture) same (diamond or superabrasive) same (saw or wheel or tool or grinding or cutting)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:27

S49	318	(S45 S46) and (opening or slot or concave or aperture) same (diamond or superabrasive) same (saw or wheel or tool or grinding or cutting) same (braz\$5 or bond\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:28
S50	0	(S45 S46) and (opening or slot or concave or aperture) with "into" with (diamond or superabrasive) same (saw or wheel or tool or grinding or cutting) same (braz\$5 or bond\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:28
S51	0	(S45 S46) and (opening or slot or concave or aperture) with "into" with (diamond or superabrasive) same (braz\$5 or bond\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 15:28
S52	12	protruding near height with abrasive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:00
S53	2	("6039641").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 16:06
S54	4	("4669522"   "4780274"   "5000273"   "5518443").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/07 16:06
S55	1	S54 and protrud\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:10
S56	46	diamond adj tool same protrud\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:13
S57	88	protrud\$5 near5 height near5 (abrasive or diamond)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:19
S58	6	protrud\$5 near5 height near5 (abrasive or diamond) with control	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/07 16:19

S59	2	("20030132119").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/07 16:22
S60	98	(abrasive or polishing or planarizing or planarization or abrading or lapping).ti. and (protrud\$4 with (diamond or particle or abrasives)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:37
S61	4304	(abrasive near2 (tool or article)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:43
S62	91786	(abrasive near2 (tool or article)).ti. (support or substrate or shank) same (abrasives or diamond or superabrasive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S63	550	(abrasive near2 (tool or article)).ti. and (support or substrate or shank) same (abrasives or diamond or superabrasive) same particle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S64	533	(abrasive near2 (tool or article)).ti. and (support or substrate or shank) same (abrasives or diamond or superabrasive) with particle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S65	260	(abrasive near2 (tool or article)).ti. and (support or substrate or shank) same (abrasives or diamond or superabrasive) with particle same layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 09:44
S66	6	((("5611326") or ("5997597") or ("6042463"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/08 09:45
S67	5	abrasive near3 particle with protrusion with (effective or exhibit or impart or benefit or better or enhanced or enhance or prefer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/08 10:07



S68	3	("3957593"   "4381227"   "5389228").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/08 10:29
S69	4	("5989405").URPN.	USPAT	OR	ON	2009/05/08 10:29
S70	2	("20070151554").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/12/01 09:26
S71	1	S70 and groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 09:26
S72	569	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 10:38
S73	1045	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 10:38
S74	11869	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 10:38
S75	569	125/15.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S76	1045	451/540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S77	11869	"51".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S78	47	(S75 S76 S77) and diamond near3 tool same shank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:49
S79	20	(S75 S76 S77) and diamond near3 tool same shank and hole	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/01 11:53

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